

## ABSTRACT

A liquid reconditioning system separates mixtures of two liquids that are insoluble in one another, such as a coolant and tramp oil from a machining operation. The mixtures of the two liquids are delivered from a sump, or collection basin, to a separator by means of a venturi pump. A tank is provided for holding the two liquids after they are separated whereby they may be individually removed from the holding tank. One of the separated liquids, in the case of a coolant and tramp oil, the coolant, is pumped through the venturi pump to create the vacuum, or negative pressure, that draws the mixtures of the two liquids from the sump to the separator.